RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/051, 909ASource: 150/05Date Processed by STIC: 10/051, 909A150/05

ENTERED



IFW16

RAW SEQUENCE LISTING DATE: 07/20/2005 PATENT APPLICATION: US/10/051,909A TIME: 11:22:53

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3 <110> APPLICANT: Helentjaris, Tim
 5 <120> TITLE OF INVENTION: Plant Sugar Transport Proteins
 7 <130> FILE REFERENCE: 2119-4263 (BB1163 US CIP)
 9 <140> CURRENT APPLICATION NUMBER: 10/051,909A
10 <141> CURRENT FILING DATE: 2002-01-17
12 <160> NUMBER OF SEQ ID NOS: 56
14 <170> SOFTWARE: Microsoft Office 97
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RAW SEQUENCE LISTING DATE: 07/20/2005
PATENT APPLICATION: US/10/051,909A TIME: 11:22:53

Input Set: A:\10051909 Sequence Listing.txt
Output Set: N:\CRF4\07202005\J051909A.raw

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     78 tecgeacece tegeteteca acceeaaege geggegttge taaaatteae eteagegegt
                                                                            120
                                                                            180
     79 actccagttt ggccacctca ccacccgccg ccgctgttta agaaggcccc gcgcccgatc
                                                                            240
     80 ggggatcacg aaccttggcc gccgctgccg gagtgggggc gtagatttcc ggcggccatg
     81 ggggggggcg tgatggtcgc catcgcggcc tctatcggca acttgctgca gggctgggac
                                                                            300
                                                                            360
     82 aatgcgacaa ttgctggagc cgtcctgtac ataaagaagg aattcaacct gcagagcgag
                                                                            420
     83 cctctgatcg aaggcctcat cgtcgccatg ttcctcattg gggcaacagt catcacaaca
     84 tctccggggc caagggctga ctgcgttggt aggaggccca tgctggtcgc ctcggctgtc
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                                                                            540
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                                                                            600
     86 gcaaggctca ttgatgggtt cggtatcggt ttggcggtca cacttgttcc tctctacatc
     87 tccgaaactg caccgcacag anattcttgg ggctgntnga acacgttgcc gcagttcatt
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                                                                            720
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                                                                            840
     90 ctgactgtct tctacttgcc tgaatcacca aggtggcttg tnagcaaagg aaggatggcg
     91 gaggcgaaga gagtgntgca aaggctgcgg ggaagagaag atgtctcang ggaganggct
                                                                            900
                                                                            960
     92 cttctagttg aaggtttggg ggtcggtaaa gatacacgta tttnagagta catcattgga
     93 cctgccaccg aggcagccga tgatcttgta actgacggtg ataaggaaca aatcacactt 1020
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     107 cctggagtga ggcgtgccct gttagtcggt gttggaattc agatccttca acagtttgct 1860
     108 ggaataaacg gtgttctgta ctatacccca caaattcttg agcaagctgg tgtggcagtt 1920
     109 attettteca aatttggtet eageteggea teageateea tettgateag tteteteaet 1980
     110 accttactaa tgcttccttg cattggcttt gccatgctgc ttatggatct ttccggaaga 2040
     111 aggtttttgc tgctaggcac aattccaatc ttgatagcat ctctagttat cctggttgtg 2100
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61 <220> FEATURE:

RAW SEQUENCE LISTING DATE: 07/20/2005

PATENT APPLICATION: US/10/051,909A TIME: 11:22:53

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- 168 <222> LOCATION: (236)
- 169 <223> OTHER INFORMATION: Xaa = any amino acid
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RAW SEQUENCE LISTING PATENT APPLICATION: US/10/051,909A DATE: 07/20/2005 TIME: 11:22:53

	172	Met	വ	Glv	Δla	Wa l	Met	Val	בומ	Tle	Ala	Δla	Ser	Tle	Glv	Δsn	I.e.i
	173		Gry	Gry	AIG	5	Mec	Vai	AIU	110	10	niu	DCI	110	Gry	15	ncu
			Gln	Glv	Trp	•	Asn	Ala	Thr	Ile		Glv	Ala	Val	Leu		Ile
	176			1	20	- L- L-				25		1			30	- 2 -	
		Lys	Lys	Glu		Asn	Leu	Gln	Ser	Glu	Pro	Leu	Ile	Glu	Gly	Leu	Ile
	179	•	•	35					40					45	-		
	181	Val	Ala	Met	Phe	Leu	Ile	Gly	Ala	Thr	Val	Ile	Thr	Thr	Ser	Pro	Gly
	182		50					55				t	60				
	184	Pro	Arg	Ala	Asp	Cys	Val	Gly	Arg	Arg	Pro	Met	Leu	Val	Ala	Ser	Ala
•	185	65	/				70					_. 75					80
	187	Val	Leu	Tyr	Phe	Val	Ser	Gly	Leu	Val	Met	Leu	Trp	Ala	Pro	Ile	Val
	188					85					90					95	
		Tyr	Ile	Leu		Leu	Ala	Arg	Leu		Asp	Gly	Phe	Gly		Gly	Leu
	191				100	-	_		_	105			•		110		
		Ala	Val		Leu	Val	Pro	Leu	-	Ile	Ser	Glu	Thr		Pro	His	Arg
	194			115	~3			_	120	_		~ 7	-1	125	~ 3		**
W>		Xaa		Trp	GIY	Xaa	Xaa		Thr	Leu	Pro	GIn		lie	GIĀ	vaı	xaa
	197	C1	130	Mot	Dho	T 011	Cor	135	Cara	Mot	17a T	Dho	140	Mot	Sor	Lou	Mot
		145	GIY	Mec	FIIE	neu	150	TYL	Cys	Mec	Val	155	GIY	Mec	per	пец	160
			Lvs	Pro	Asp	Trn		T.e.11	Met	Leu	Gly		T.eu	Ser	Tle	Pro	
	203	110	цур	110	nsp	165	my	шец	1100	LCu	170	VUI	LCu		110	175	JCI
		Leu	Xaa	Tvr	Phe		Leu	Thr	۷al	Phe	Tyr	Leu	Pro	Glu	Ser		Ara
	206			-1-	180					185	-1-				190		5
		Trp	Leu	Val		Lys	Gly	Arg	Met		Glu	Ala	Lys	Arg	Val	Xaa	Gln
	209	-		195		•	•		200				-	205			
	211	Arg	Leu	Arg	Gly	Arg	Glu	Asp	Val	Ser	Xaa	Glu	Xaa	Ala	Leu	Leu	Val
	212		210					215					220				
	214	Glu	Gly	Leu	Gly	Val	Gly	Lys	Asp	Thr	Arg			Glu	Tyr	Ile	
		225				6_	230					235					240
		Gly	Pro	Ala	Thr		Ala	Ala	Asp	Asp	Leu	Val	Thr	Asp	Gly	_	Lys
	218	~3	~7		— 1	245	—	~3	_	61	250	~ 1	~ 1	2		255	3.7 -
		GIU	GIn	тте		ьеu	Tyr	GIA	Pro		Glu	GIY	GIn	ser	_	тте	Ala
	221	7 200	Desc	Com	260	<i>~</i> 3	Dres	т1 о	Mot	265	C1	Cox	1707	T 011	270	T 011	ח ד ת
	223	Arg	PIO	275	пўв	GIY	PIO	116	280	пеп	Gly	SET	vaı	285	per	neu	ATQ
		Ser	Δτα		Glv	Ser	Met	Val		Gln	Ser	Val	Pro	-	Met	Asn	Pro
	227	1	290	111.0	Gry		MCC	295	71011	0111	DCI	Val	300	ncu	1100	TYDD	110
				Thr	Leu	Phe	Glv		Val	His	Glu	Asn		Pro	Gln	Ala	Gly
		305					310					315					320
			Ser	Met	Arg	Ser	Thr	Leu	Phe	Pro	Asn	Phe	Gly	Ser	Met	Phe	Ser
	233	_			_	325					330		_			335	
	235	Val	Thr	Asp	Gln	His	Ala	Lys	Asn	Glu	Gln	Trp	Asp	Glu	Glu	Asn	Leu
	236				340					345					350		
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	239	•		355					360					365			
	241	Glu	_	Asn	Leu	His	Ser		Leu	Leu	Ser	Arg		Ala	Thr	Gly	Ala
	242		370	_	_			375		e =		_	380			_	
	244	Glu	Gly	Lys	Asp	Ile	Val	His	His	Gly	His	Arg	Gly	Ser	Ala	Leu	Ser

RAW SEQUENCE LISTING

DATE: 07/20/2005 TIME: 11:22:53 PATENT APPLICATION: US/10/051,909A

245	205					200					30E					400
	385															400
	мет	Arg	Arg	GIN				_	Glu	_	_	_	GIY	vai		ser
248							_				_		_	_	415	_
		_		_	_	-			Leu						GIU	гуѕ
			_									_		430	_	_
		_		Asn	Gly	Arg	Lys		Gly	Gly	Phe	Lys		Val	Tyr	Leu
													445			
256	His	Gln	Glu	Gly	Val	Pro	Gly	Ser	Arg	Arg	Gly	Ser	Ile	Val	Ser	Leu
												460				
259	Pro	Gly	Gly	Gly	Asp	Val	Leu	Glu	Gly	Ser	Glu	Phe	Val	His	Ala	
	465															480
262	Ala	Leu	Val	Ser	Gln	Ser	Ala	Leu	Phe	Ser	Lys	Gly	Leu	Ala	Glu	Pro
263					485					490					495	
265	Arg	Met	Ser	Asp	Ala	Ala	Met	Val	His	Pro	Ser	Glu	Val	Ala	Ala	Lys
				500										510		
268	Gly	Ser	Arg	Trp	Lys	Asp	Leu	Phe	Glu	Pro	Gly	Val	Arg	Arg	Ala	Leu
269			515					520					525			
271	Leu	Val	Gly	Val	Gly	Ile	Gln	Ile	Leu	Gln	Gln	Phe	Ala	Gly	Ile	Asn
272		530										540				
274	Gly	Val	Leu	Tyr	Tyr	Thr	Pro	Gln	Ile	Leu	Glu	Gln	Ala	Gly	Val	Ala
	545					550					555					560
277	Val	Ile	Leu	Ser	Lys	Phe	Gly	Leu	Ser	Ser	Ala	Ser	Ala	Ser	Ile	Leu
278					565					570					575	
280	Ile	Ser	Ser	Leu	Thr	Thr	Leu	Leu	Met	Leu	Pro	Cys	Ile		Phe	Ala
281				580										590	_	
283	Met	Leu		Met	Asp	Leu	Ser	-	Arg	Arg	Phe	Leu		Leu	Gly	Thr
284			595		_	_		600		_		_	605			
	Ile		Ile	Leu	Ile	Ala			Val	Ile	Leu		Val	Ser	Asn	Leu
287		610		-			615		_ •	_	_	620			_	
		Asp	Leu	Gly	Thr		Ala	His	Ala	Leu		Ser	Thr	He	Ser	
	625			_,	~	630	_,			~1	635	~ 3	_		_	640
	Ile	Val	Tyr	Phe	-	Cys	Pne	Val	Met	_	Pne	Gry	Pro	TTE		Asn
293			_		645		5 1		m1	650	**- 7	3	01	T	655	~ 7.
		Leu	Cys		GIU	тте	Pne	Pro		Arg	val	Arg	GIY		Cys	Ile
296		-1 -	~	660	Dia -	m1	Dla a		665	a 1	7	-1 -	- 1.	670	mla sa	(T)
		TIE	_	Ala	Pne	Thr	Pne				Asp	TTE		vai	THE	Tyr
299		T	675 D-10	77a 7	Mak	T	7	680	T 1.		T 011	77.	685	77 ~ 7	Dha	Com
	Ser		Pro	vaı	мет	Leu		Ala	Ile	GIY	Leu		GIY	vai	Pne	ser
302	T 1.	690	7 J -	77_ T	*** 7	C	695	T 1.	0	Dha	77-3	700	ו בעד	Dha	T 011	T
		туг	Ala	vai	val	-			Ser	Pne				Pile	ьeu	_
	705	D	~1	ml	Ť		Mak		T 011	~1		T1.		~1.,	Dho	720
307				Thr	_	_			Leu				Thr		735	FIIE
					•					. – •					133	
	АТА	val	GTÅ		ьys	GIN	ATG	ATG	Ala	пÀ2	WIG					
311	.014	n. a:	70 T	740					745							
	<210> SEQ ID NO: 3 <211> LENGTH: 443															
					±J											
			YPE:		^~	70 0	a + d	_								
2 T Q	<21.	3 / UI	CAM.	ISM:	OT A	La Si	aL I V	a a								

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 07/20/2005
PATENT APPLICATION: US/10/051,909A TIME: 11:22:54

Input Set: A:\10051909 Sequence Listing.txt
Output Set: N:\CRF4\07202005\J051909A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

```
Seq#:1; N Pos. 29,622,636,638,669,771,822,856,889,896,944
Seq#:2; Xaa Pos. 129;133,124,144,178,207,218,220,236
Seq#:3; N Pos. 193,388,435,439
Seq#:4; Xaa Pos. 65,130
Seq#:11; N Pos. 421,434,441,458,483,493,498
Seq#:17; N Pos. 149,271,304,334,357,476,599,602
Seq#:18; Xaa Pos. 34,85,98,112,151
Seq#:22; Xaa Pos. 102
Seq#:35; N Pos. 1584
Seq#:36; Xaa Pos. 528
Seq#:40; Xaa Pos. 4
Seg#:41; Xaa Pos. 5
Seq#:42; Xaa Pos. 3,4,5,7
Seq#:44; Xaa Pos. 3,5
Seq#:45; Xaa Pos. 5,8,14
Seq#:46; Xaa Pos. 7,9,10
Seq#:47; Xaa Pos. 6
Seq#:48; Xaa Pos. 10
Seq#:50; Xaa Pos. 3,10
Seq#:51; Xaa Pos. 6,10
Seq#:52; Xaa Pos. 7
Seq#:53; Xaa Pos. 5,20
Seq#:54; Xaa Pos. 4,9,13,17
Seq#:55; Xaa Pos. 4,12,18,24
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Invalid <213> Response:

Seq#:56; Xaa Pos. 14

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56

VERIFICATION SUMMARY

4 > r

PATENT APPLICATION: US/10/051,909A TIME: 11:22:54

DATE: 07/20/2005

```
L:77 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
M:341 Repeated in SeqNo=1
L:196 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:128
M:341 Repeated in SeqNo=2
L:342 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:180
M:341 Repeated in SeqNo=3
L:376 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:64
M:341 Repeated in SeqNo=4
L:827 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:420
M:341 Repeated in SeqNo=11
L:1087 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:120
M:341 Repeated in SeqNo=17
L:1134 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:32
M:341 Repeated in SeqNo=18
L:1375 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:96
L:2556 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:1560
L:2672 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36 after pos.:512
L:2964 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:0
L:2985 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:0
L:3011 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42 after pos.:0
L:3052 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44 after pos.:0
L:3082 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45 after pos.:0
L:3112 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46 after pos.:0
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L:3158 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:0
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L:3272 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:53 after pos.:0
M:341 Repeated in SeqNo=53
L:3312 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:0
M:341 Repeated in SeqNo=54
L:3352 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55 after pos.:0
M:341 Repeated in SeqNo=55
L:3381 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56 after pos.:0
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